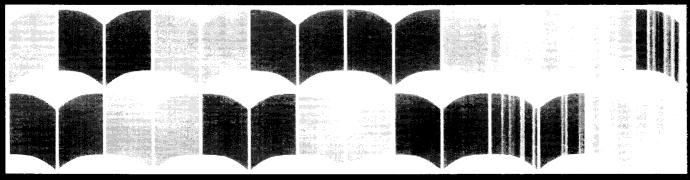
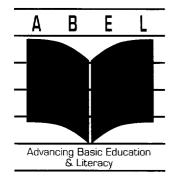
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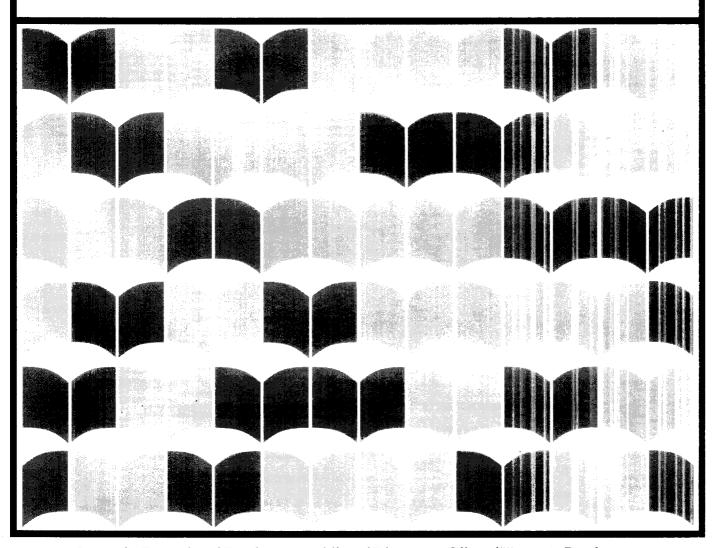




HOUSE AND CLASSROOM BUILDING PROGRAM

Prepared by: Phil Matthews

June 18, 1992



PN-ABQ-877

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GIRLS ATTAINMENT IN BASIC LITERACY AND EDUCATION

PROJECT IMPLEMENTATION UNIT

HOUSE AND CLASSROOM BUILDING PROGRAM

(18th JUNE 1992)

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1.	PREA	MRI	F

- 2. AIMS AND GOALS
- IMPLEMENTATION SCHEDULE
 - 3.1 Site identification
 - 3.2 Local contribution
 - 3.3 Supply of bricks
 - 3.4 Site surveying
 - 3.5 Site layouts
 - 3.6 Tender documents
 - 3.7 Tendering
 - 3.8 Work on site
- 4. PERSONNEL
- 5. VEHICLES
- 6. COSTS
- 7. OTHER PRIMARY SCHOOL CONSTRUCTION
- 8. MODIFICATIONS TO PLAN
- 9. MONITORING AND EVALUATION

APPENDIX I:

House and classroom plans

APPENDIX II:

Allocation of units by District

APPENDIX III:

Implementation schedule (detail)

APPENDIX IV:

Costs by activity by month

APPENDIX V:

Costs by budgetary sub-items

1. PREAMBLE

The plan of operation submitted herein is in pursuance of the condition precedent to the disbursement of the first tranche that stipulates that the Grantee shall furnish to USAID:

"(f) evidence that the Grantee has adopted a plan satisfactory to AID which shows intended construction of primary schools and teacher housing to be built with donor and GOM [Government of Malawi] funding between 1992 and 1996. (Annual construction targets for all such construction shall be part of the plan and will reflect the additional construction to be funded as a result of the GOM contribution under this Program)".

Four GOM financial years (1st April to 31st March) are involved, namely 1992-93, 1993-94, 1994-95 and 1995-96 (but see Subsection 3.8 for commitments in the 1996-97 financial year).

2. AIMS AND GOALS

The overall objective of GABLE is to increase girls' attainment (defined as access, persistence and completion) in primary education. To help achieve this purpose, GABLE will build 166 units in the four year period, each unit consisting of one teacher's house and one two-classroom block, constructed with concrete slab floors, brick walls and either corrugated iron roofs or cement roofing tiles. For the small contractors to whom it is envisaged the contracts will be given, each unit will take about 26 weeks to complete. The proposed building schedule in each financial year is shown in the following Table.

(1) (2)	start/finish the complete construction	37	1993-94 37* 43	1994 - 95	1995 - 96	TOTAL 37 129
	·				TOTAL	166

* construction to be completed by 31st August 1993

Thus, in 1992-93 it is proposed to award contracts for the construction of 37 units and it is anticipated that by the end of the financial year, i.e. 31st March, approximately half of each unit will have been constructed. By 31st August 1993, it is expected that the construction of these 37 units will be completed. In addition, in each of the three financial years 1993-94, 1994-95 and 1995-96, it is anticipated that 43 units will be started and completed.

This schedule is subject to the outcome of the tenders (see Subsection 3.7).

3. IMPLEMENTATION SCHEDULE

The following is the implementation schedule to be followed for each unit (Appendix I indicates in detail the activities to be undertaken for each month in the four years).

3.1 Site identification

The Ministry of Education and Culture has allocated units to each District, with each District having at least two units (see Appendix II for details). (However, the District Development Committees have not yet identified the specific sites within their Districts where the units will be located, nor has the PIU decided the years in which each of the allocated units will be built). It should be noted that, as building in 1992-93 will take place in the rainy season, preference will be given to selecting those identified sites where, in spite of the season, access is unimpeded.

3.2 Local contribution

At their own cost, the local community is expected to contribute the appropriate quantities of sand and/or stone for the construction of each unit and to deliver these to each site. PIU will specify the quantity required to complete one unit.

3.3 Supply of bricks

Two separate approaches will be used to acquire the bricks needed for the units. These are:

- (a) for the units that are to go to contract in 1992 and are to be started in the 1993 the contractors will be allowed to build with commercially available bricks. This is because the preferred bricks, timba bricks, are made in the dry season and the time lag from the when the bricks can be made in 1992 to when construction starts in 1993 in the middle of the wet season is considered too long a period to keep the timba bricks secure and undamaged. Thus, commercial bricks will be used for the first 37 units.
- (b) For the remaining 129 units those contractors who will use timba bricks will be favoured. Thus, in 1993-94, 1994-95 and 1995-96, local timba brickmakers will be identified by the District Development Committees. These brickmakers will be commissioned by PIU to make on site the appropriate number of bricks to the correct specification and to have them available on specified dates early in the dry season, ready for the contractors. The bricks will be purchased on behalf of the PIU by the clerks of works (see Subsection 4.1). The PIU will then make the timba bricks available to the contractors, who will erect the units in the same dry season.

3.4 Site surveying

After the 1992-93 sites have been identified, PIU will employ three clerks of works to survey the sites and to carry out a variety of other duties throughout the four years and into 1996-97 (see Subsection 4.1).

3.5 Site layouts

From the surveys carried out by the clerks of works PIU will commission consultants to prepare the site layouts. Fee agreements will be negotiated, preferably at hourly rates.

3.6 Tender documents

PIU has started preparing tender documents, which include the plans for each unit. Tender documents will be finalized once site identification has been made, site surveys carried out and site layouts prepared.

3.7 Tendering

Tendering will be done once each financial year. Contracts may be awarded to contractors for single units or, where the units to be built are clustered conveniently together, for more than one unit. For each round of tendering general conditions, including the normal four week tender approval period, will hold.

3.8 Work on site

Once construction has started the clerks of works will authorize six periodic payments to the contractors as each of the following activities is satisfactorily completed:

(a)	excavation and subwalls	10%
(b)	casting of slab	5%
(c)	superstructure to wall plate level	20%
(d)	roofing	30%
(e)	final finishing	25%
(f)	external work	10%

TOTAL 100% of contract price

The contract will allow for a maintenance period of six months after construction has been completed. Five percent of each periodic payment will be withheld in a special deposit account and, if in the six month period the defects, if any, are made good, then the withheld money will be released. As many of the units will not be completed until the end of the 1995-96 financial year, the six month making good the defects period (along with the associated costs) will extend into the 1996-97 financial year.

4. PERSONNEL

Five categories of personnel will be employed. These are:

- 4.1 clerks of works: three will be employed, one located in each Region. Their main tasks will be:
 - (a) site surveys;
 - (b) purchasing on behalf of PIU the timba bricks at each site;
 - (c) supervising construction work; and
 - (d) authorizing payments to contractors.
- 4.2 stores clerks: two will be employed, one for Southern Region and one for Central and Northern Regions. Their main tasks will be:
 - (a) issuing materials to contractors on site; and
 - (b) maintaining the appropriate stores records.
- 4.3 drivers: two drivers will be employed, one for Southern Region and one for Central and Northern Regions. Their main task will be delivering stores to the contractors.

- 4.4 accounts clerk: located in the PIU. Duties are to be defined but will include (a) maintaining up separate accounts for this building program and (b) reporting quarterly to a designated MOEC senior officer.
- 4.5 clerical officer; locted in the PIU. Duties are to be defined.

5. VEHICLES

The three clerks of works will each be supplied with a pickup. Two trucks will be purchased for the delivery of stores.

6. COSTS

The costs of the 166 unit construction program are presented in two ways:

- (1) by a cashflow, which gives the financial requirements by each activity for each month of each financial year (see Appendix IV); and
- (2) by budgetary sub-items (see Appendix V).

Also shown in both Appendices are commitments for the 1996-97 financial year (see Subsection 3.8 for an explanation as to why this occurs).

7. OTHER PRIMARY SCHOOL CONSTRUCTION

A summary statement of primary school construction through IDA, ADF and GOM funding is given below.

	I. Type of con-			YEĤR	: S		
DONOR	2. Contribution	1991-2	1992-3	1393-4	1934-5	1995-96	1996-97
IDA	No of houses	343	159	243			
	No of classrooms	; 634	322	494.			
	IDA credit						
	GOM contribution	2159882	1716981	1236866			
	TOTAL K	16779275	10800433	6773807			
ADF	No of houses	7	4	3			
	No of classrooms	174	61	61		i	
	ADF cradit	9619398	13827094	6513253	:		
	GOM contribution	2154227	1038876	1479733	i	İ	
	TOTAL K	11773625	14865970	7992986;	i	;	
GABLE	No of houses	i		80	43	43	
	No of classrooms	1		160	86 :	86	
	GABLE credit	i	+ 1762844	4537546	3064156	3041836	189290
	GOM contribution	1	san	d, stone,	labour a	nd servic	CS
	TOTAL K		*1762844	4537546	3064156,	3041836	189290

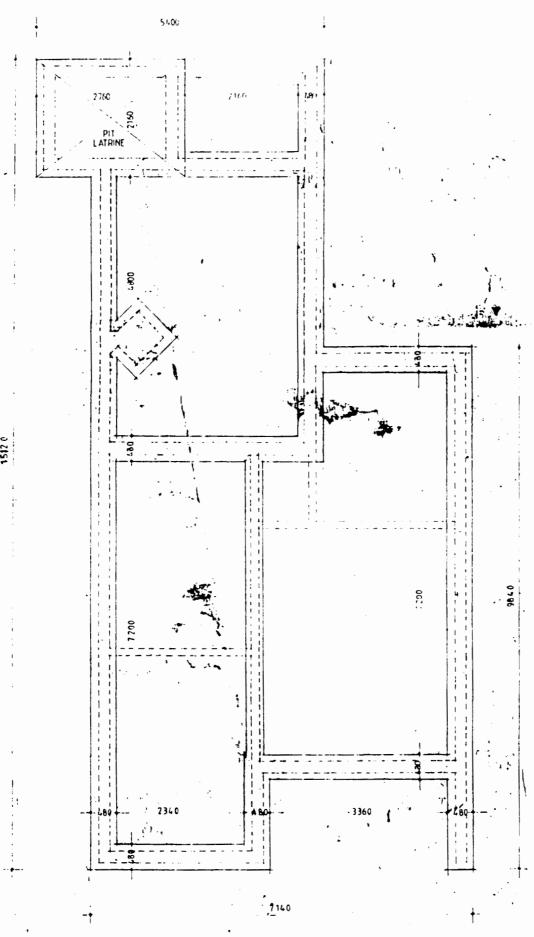
NOTE: * Progressive payments will be made on unit construction, 1992-33

8. MODIFICATIONS TO PLAN

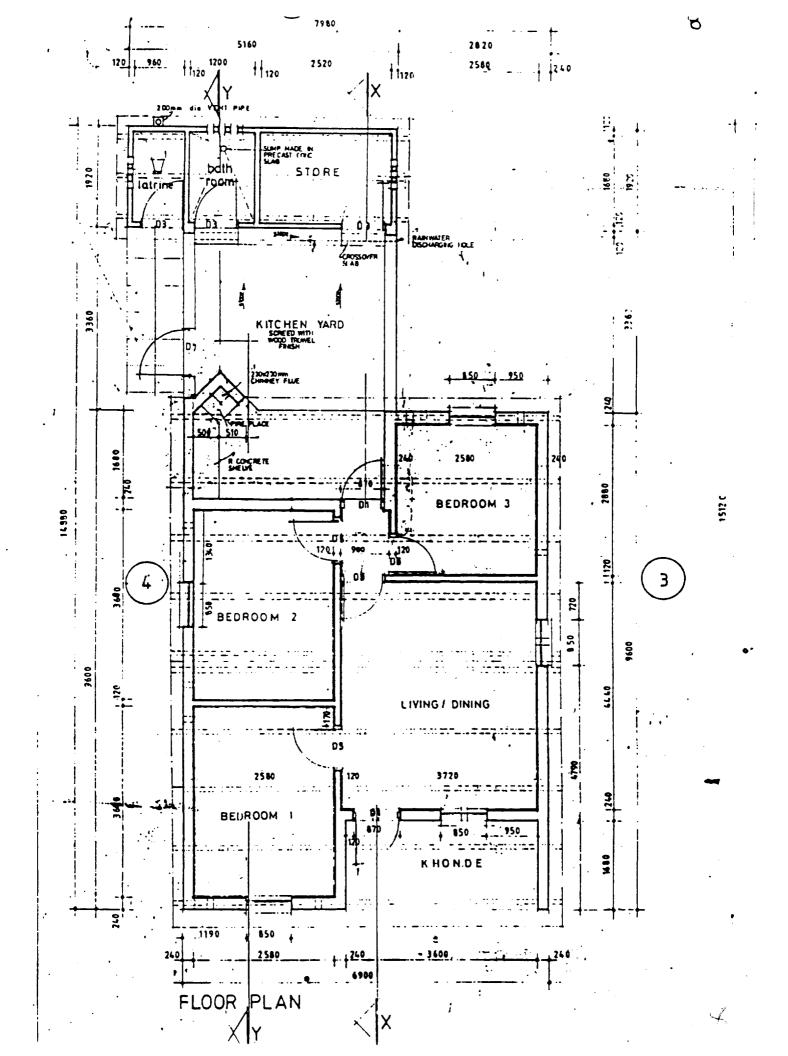
Prior notification to USAID/Malawi will be given and prior approval from USAID/Malawi will be sought should the MOEC consider that any modifications to or alterations to the plan are needed.

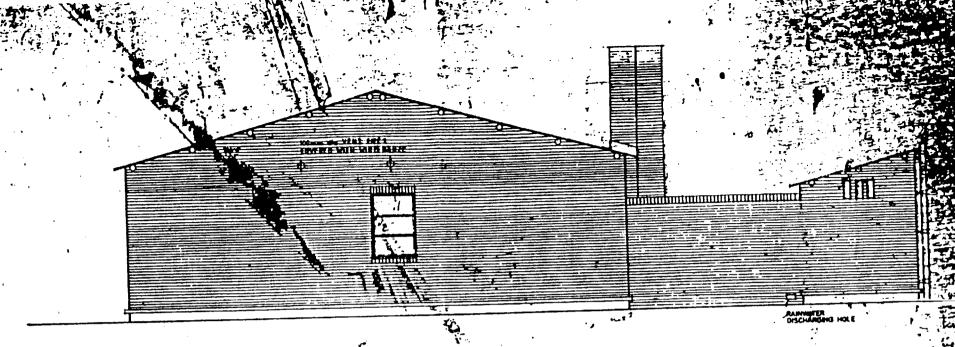
9. MONITORING AND EVALUATION

Monitoring and evaluation of this component of GABLE will be based on annual reports on the progress of the construction of the units. PIU activities for GABLE will be evaluated by independent GABLE evaluations of the program at midpoint and at the conclusion. The objective of these evaluations will be to determine whether a sufficient number of units have been built gy GOM under GABLE.

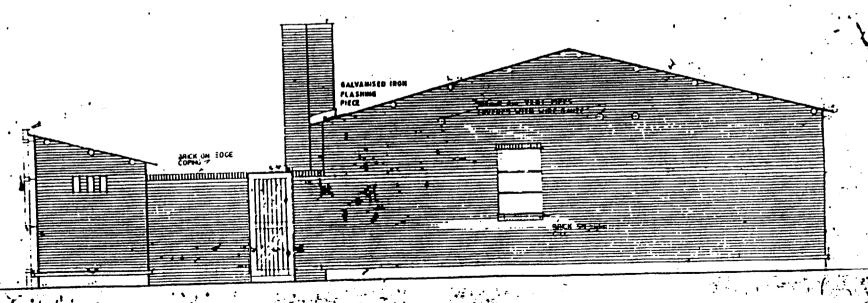


FOUNDATION PLAN

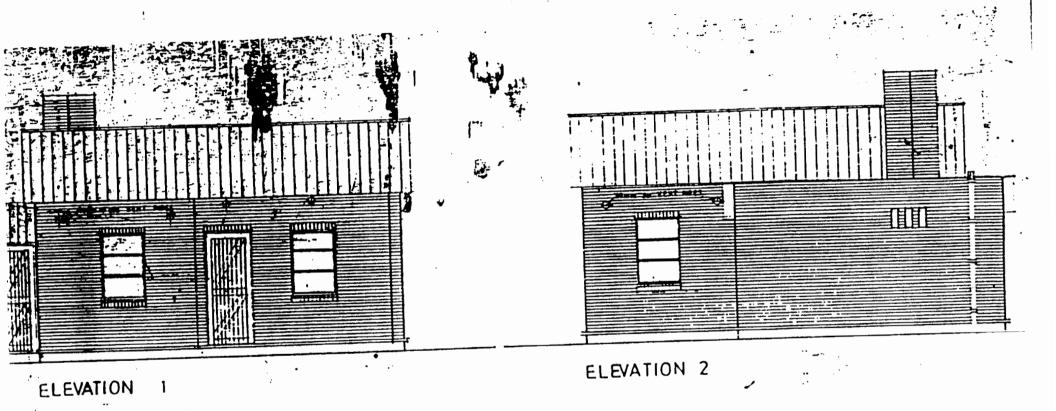


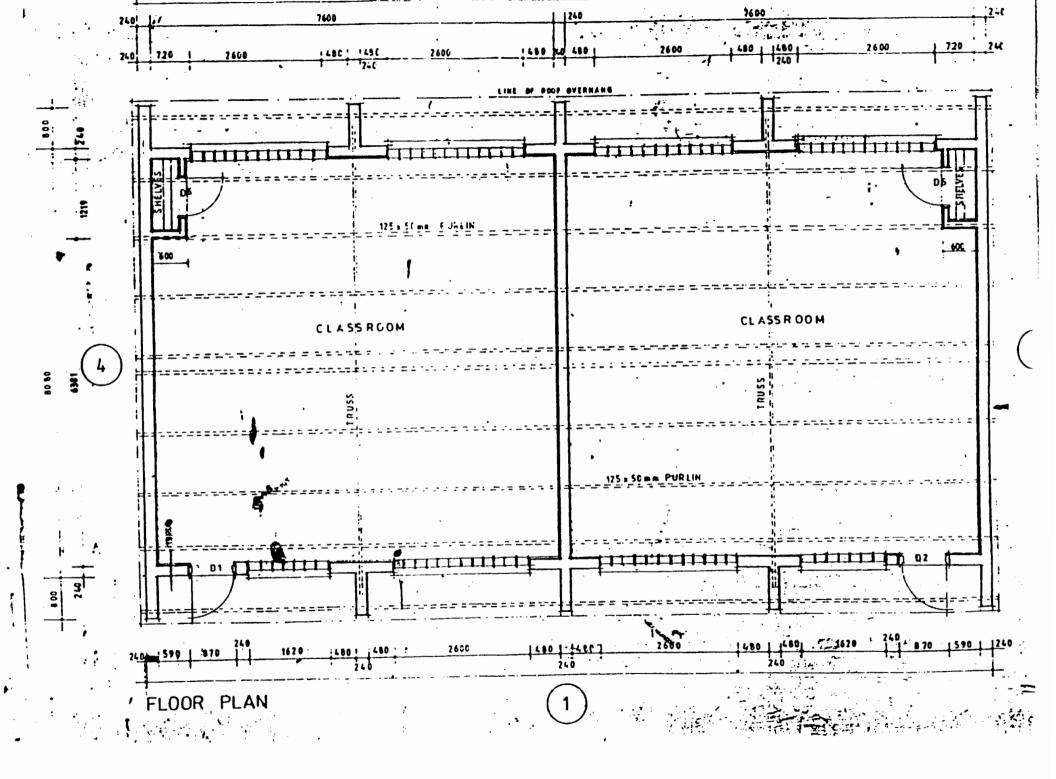


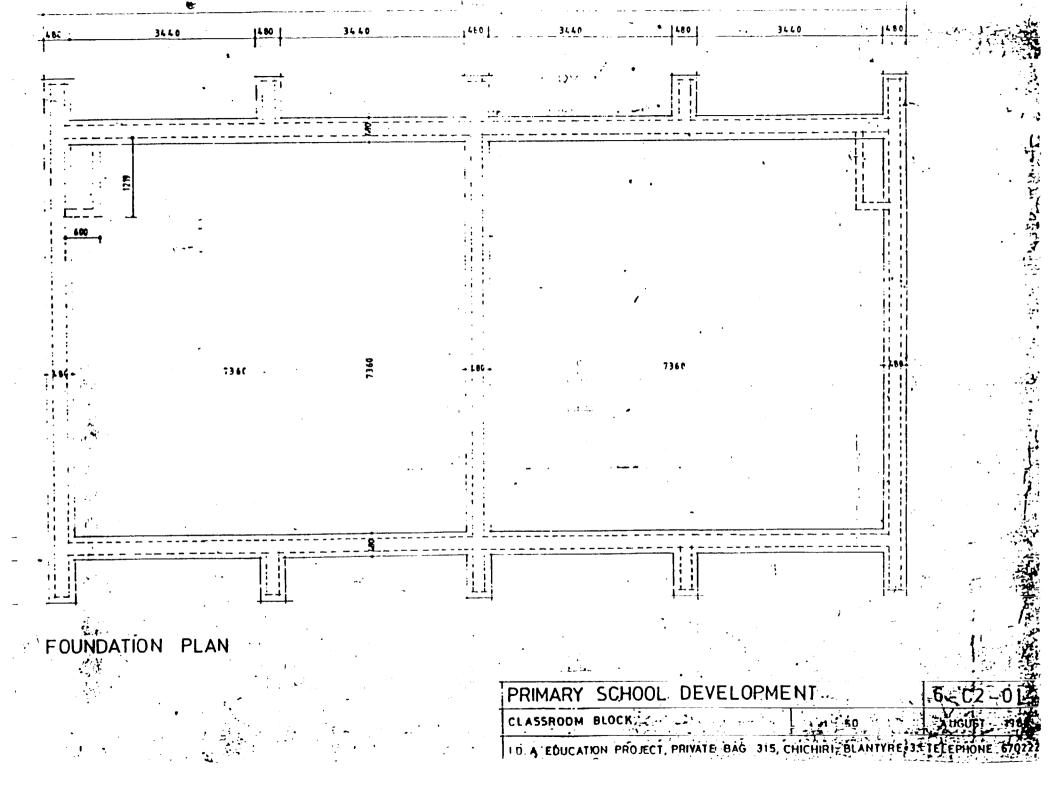
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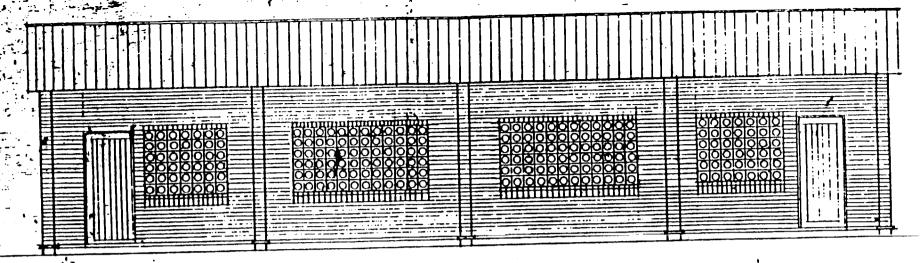


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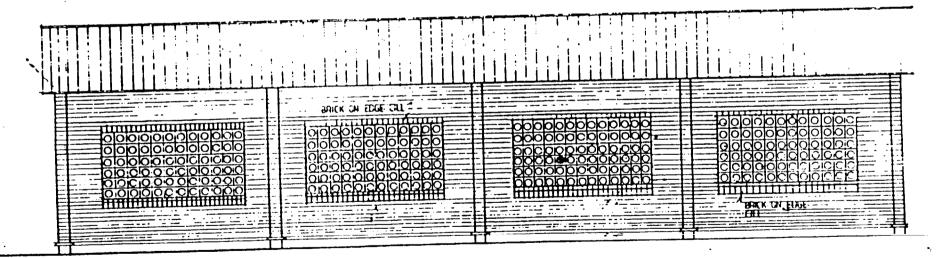




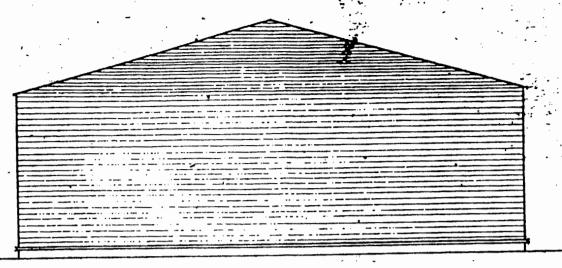




ELEVATION 1



ELEVATION 2



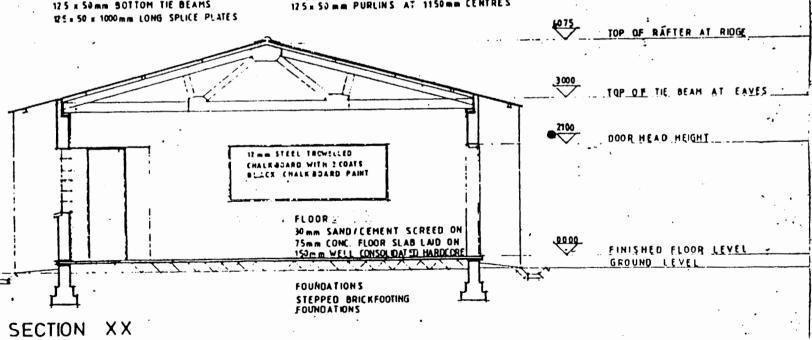
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ELEVATION 3 & 45

TRUSS COMPOSITION

125 x 50mm RAFTERS 125 x SOmm BOTTOM TIE BEAMS

PITCH 15° 450mm 26gge RIDGE CAPPING 26gge CORRUGATED IRON SHEETS FIXED TO 125 x 50 mm PURLINS AT 1150mm CENTRES



APPENDIX II: Allocation of units by districts

CURRENT CLASSROOM DISTRIBUTION BY DISTRICT (AS DE DEC.1991-ASCLITION OF STO I TUITION AND PROFESSED DISTRIBUTION OF SABLE DOUBLE STREAM BLOCKS(RURAL)

AND TEACHERS HOUSES AS DE 20/3/92

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APPENDIX III: Implementation schedule (detail)

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NOTE: In the first construction sequence the bricks will be supplied by the contractors

KEY: CTB = Central Tendering Board

* = months in which activity takes place

+ = four week period, after the award of contract by CTB, in which the contractor can consider the CTB offer

months in which the one construction sequence starts and ends

= activities within each construction sequence

. = making good the defects period

1.2.3 & 4 = the four construction sequences

	FINANCIAL YEARS		
1994-95	1995-96 199	6-97	ACTION BY
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			MOEC
			Local community
	* : .		Commissioned brickmaker
			Clerks of works
***			Consultants
			PIU quantity surveyors
	V		PIU and CTE
K	K	. к	1. 2. 3. Contractor

NOTE: In the first construction sequence the bricks will be supplied by the contractors

KEY: CTB * Central Tendering Board

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months in which the one construction sequence starts and ends

activities within each construction sequence

making good the defects period

1,2,3 & 4 = the four construction sequences

1992/93 FINANCIAL YEAR.

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ACTIVITY :	APRIL	!	MAY	!	JUNE	JULY	! AUGUST	!SEP	TEMBER	! (4	CTOBER	! BOVEMBER	!	PECEMPER	! JANUARY	: FEBR	PRS	! MARCH	!	TOTAL
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SUMMARY

FINANCIAL YEAR	1		PRIL	1	MAT	•	JUNE	•	1017	:	AUGUST	151	EFTEMPER .	1	v(l(iik	1	AGAEHBEB	•	DECEMBER	1	ALVIER L	١.	Lubiités		MICH	,	10151	
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1993/94	•	39	2462	!	392462	1	392462	!	448638	;	429916	1	129916	,	125916	!	129916	3	436196	٠	554462	'	geepo	,	héténu	,	Hintel	: 4231246
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GRAND TOTAL																											2515677	_1

APPENDIX V: COSTS BY SUDGETARY SUB-ITEMS

SUB-ITEM REFERENCE NUMBER	SUB-ITEM DESCRIPTION	1992/93	1993/94	1994/95	1995/95	1996/97	TOTAL
002	Salaries						
	Clerk of Works (18000 x 3)	40,500	54,000	54,000	54,000	18,000	220,500
	Stores Clerk	40,300	37,000	37,000	JT,000	10,000	220,300
	(6000 x 2)	9,000	12,000	12,000	10,000	0	43,000
	Drivers		2 222	2 040	5 000	•	10.000
	(3000 x 2) Accounts Clerk	2,000	6,000	5,000	5,000	0	19,000
	(8400 x 1)	6,300	8,400	8,400	8,400	2,800	34,300
	General Clerk						
	(6000 x 1)	2,300	6,000	6,000	5,000	0	19,000
012	Consultancy	23,360	12,560	12,550	0	0	48,480
118	Fuel and Lubricants	39,000	72,000	72,000	72,000	24,000	279,000
131	Maintenance of Vehicles						
	1. Pickups	27,000	38,100	35,009	35,300	12,000	147,000
	2. Trucks	12,000	38,000	38,399	35,000	12,000	132,000
	Postage & Postage Changes	12,1000	18,110	:8.271	16,000	5,000	85, 00
145	Stationery	27, 000	36,000	38,500	36,300	12,000	147,366
1-7	Subsist./Allowance						
	1. Clerk of Works	57,500	90.090	80,000	30,300	30,000	387,509
	2. Stores Clerk	12,360	17,220	17,290	14,400	0	51,320
	3. Drivers	5,760	17,280	17,280	14,400	0	54,720
	4. Accounts Clerk	900	1,200	1,200	1,200	400	4,900
149	Telephone/Fax	24,000	32,000	32,090	32,000	11,000	131,300
303	Construction						
	1. Construction costs	711,564	3,782,544	2,358,416	2,059,418	0	3,212,340
	2. Purchase of bricks	0	127,340	127,840	127,840	62,090	445,610
	3. Retention	0	174,442	124,180	124,180	0	422,802
311	Purchase of Vehicles						
31.	1. Pickups	240,000	G	C	() 0	240,000
	2. Trucks	500,000				0	500,000
	TOTALS	1,782,844	4,537,546	3,064,155	3,041,83	189,290	12,595,672

SCHEDULE OF ACTIVITIES FOR PIU, 1992-93 TO 1996-67

(3)

(4)

(5)

(6)

Sequence 1 sites

NOTE: all activities are by PIU unless otherwise stated

YEAR: 1992		
July	(1) (2)	01.07.92: MOEC advises PIU of the construction sites After sites are identified: (a) appoint (i) three clerks of works (ii) two stores clerks and (iii) one senior accounts assistant and (b) purchase three pick-ups for the clerks of works
	(3) (4)	Clerks of works start surveying selected Sequence 1 sites Work on preparation of Sequence 1 tender documents starts
August	(1) (2) (3)	Clerks of works continue surveying selected Sequence 1 sites Persons employed to prepare Sequence 1 site layout drawings Work continues on preparation of Sequence 1 tender documents
September	(1) (2)	Clerks of works conclude surveying selected Sequence 1 sites Arrangements made by PIU with local communities for the supply of sand and stone to Sequence 1 construction sites and local communities start making their contributions
	(3)	30.09.92: preparation of Sequence 1 site layout drawings completed Conclusion of work on preparation of Sequence 1 tender
		documents
October	(1) (2) (3)	01.10.92: tendering for Sequence 1 construction opened Clerks of works start surveying selected Sequence 2 sites Local communities continue making their contributions to Sequence 1 sites
November	(1) (2) (3)	Clerks of works continue surveying selected Sequence 2 sites Local communities continue making their contributions to Sequence 1 sites 30.11.92: tendering for Sequence 1 sites closes and tenders accepted or rejected
December	(1) (2)	01.12.92: appoint (a) two drivers and (b) one general clerk Purchase two trucks for the drivers

Clerks of works conclude surveying selected Sequence 2 sites

Local communities conclude making their contributions to

One month period in which Sequence 1 contractors can decline

Persons employed to prepare Sequence 2 site layout drawings

to proceed with their successful tenders

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YEAR: 1993

January	(1) (2) (3) (4)	Sequence 1 construction starts. Clerks of works start inspecting Sequence 1 constructions and, if found acceptable by clerks of works, PIU commences progressive payments to contractors Preparation of Sequence 2 site layout drawings completed Work on preparation of Sequence 2 tender documents starts
February	(1)	Continue Sequence 1 inspections and payments to contractors
	(2)	Work continues on preparation of Sequence 2 tender documents
March	(1) (2)	Continue Sequence 1 inspections and payments to contractors Arrangements made by PIU with local communities for the supply of sand and stone to Sequence 2 construction sites and local communities start making their contributions
	(3)	Conclusion of work on preparation of Sequence 2 tender documents
	(4)	31.03.93: PIU submits report of 1992-93 activities to MOEC
April	(1) (2) (3) (4)	01.04.93: tendering for Sequence 2 construction opens Continue Sequence 1 inspections and payments to contractors Local communities continue making their contributions to Sequence 2 sites Local brickmakers are commissioned to make timba bricks to the appropriate specifications on Sequence 2 construction sites and start their work
Мау	(1) (2)	Continue Sequence 1 inspections and payments to contractors Local communities continue making their contributions to Sequence 2 sites
	(3) (4)	Timba brick makers continue producing Sequence 2 bricks 31.05.93: tendering for Sequence 2 construction closes and tenders accepted or rejected
June	(1) (2)	Continue Sequence 1 inspections and payments to contractors Local communities conclude making their contributions to Sequence 2 sites
	(3) (4)	Timba brick making for Sequence 2 construction is concluded Purchase of bricks for Sequence 2 construction
	(5)	One month period in which Sequence 1 contractors can decline to proceed with their successful tenders
July	(1)	Conclude Sequence 1 inspections and payments (apart from the withheld 5%) to contractors
	(2)	Sequence 2 construction starts. Clerks of works start inspecting Sequence 2 constructions and, if found acceptable by clerks of works, PIU commences progressive payments to contractors
August	(1)	Continue Sequence 2 inspections and payments to contractors

September	(1)	Continue Sequence 2 inspections and payments to contractors
October	(1) (2)	Continue Sequence 2 inspections and payments to contractors Clerks of works start surveying selected Sequence 3 sites
November	(1) (2)	Continue Sequence 2 inspections and payments to contractors Clerks of works continue surveying selected Sequence 3 sites
December	(1) (2) (3)	Continue Sequence 2 inspections and payments to contractors Clerks of works conclude surveying selected Sequence 3 sites Persons employed to prepare Sequence 3 site layout drawings
YEAR: 1994		
January	(1)	Clerks of works authorize final payments of the withheld 5% to contractors for Sequence 1 construction
	(2)	Conclude Sequence 2 inspections and payments (apart from the withheld 5%) to contractors
	(3) (4)	Preparation of Sequence 3 site layout drawings completed Work on preparation of Sequence 3 tender documents starts
February	(1)	Work continues on preparation of Sequence 3 tender documents
March	(1)	Conclusion of work on preparation of Sequence 3 tender documents
	(2)	Arrangements made by PIU with local communities for the supply of sand and stone to Sequence 3 construction sites and local communities start making their contributions
	(3)	31.03.94: PIU submits report of 1993-94 activities to MOEC
April	(1) (2)	01.04.94: tendering for Sequence 3 construction opens Local communities continue making their contributions to Sequence 3 sites
	(3)	Local brickmakers are commissioned to make timba bricks to the appropriate specifications on Sequence 3 construction sites and start their work
May	(1)	Local communities continue making their contributions to Sequence 3 sites
	(2)	Timba brick makers continue producing Sequence 3 bricks 31.05.94: tendering for Sequence 3 construction closes and tenders accepted or rejected
June	(1)	Local communities conclude making their contributions to Sequence 3 sites
	(2) (3) (4)	Timba brick making for Sequence 3 construction is concluded Purchase of bricks for Sequence 3 construction One month period in which Sequence 3 contractors can decline to proceed with their successful tenders

July	(1) (2) (3)	Clerks of works authorize final payments of the withheld 5% to contractors for Sequence 2 construction Sequence 3 construction starts. Clerks of works start inspecting Sequence 3 constructions
		and, if found acceptable by clerks of works, PIU commences progressive payments to contractors
August	(1)	Continue Sequence 3 inspections and payments to contractors
September	(1)	Continue Sequence 3 inspections and payments to contractors
October	(1) (2)	Continue Sequence 3 inspections and payments to contractors Clerks of works start surveying selected Sequence 4 sites
November	(1) (2)	Continue Sequence 3 inspections and payments to contractors Clerks of works continue surveying selected Sequence 4 sites
December	(1) (2)	Continue Sequence 3 inspections and payments to contractors Clerks of works conclude surveying selected Sequence 4 sites
•	(3)	Persons employed to prepare Sequence 4 site layout drawings
YEAR: 1995		
January	(1)	Conclude Sequence 3 inspections and payments (apart from the withheld 5%) to contractors
	(2) (3)	Preparation of Sequence 4 site layout drawings completed Work on preparation of Sequence 4 tender documents starts
February	(1)	Work continues on preparation of Sequence 4 tender documents
March	(1)	Conclusion of work on preparation of Sequence 4 tender documents
	(2)	Arrangements made by PIU with local communities for the supply of sand and stone to Sequence 4 construction sites and local communities start making their contributions
	(3)	31.03.95: PIU submits report of 1994-95 activities to MOEC
April	(1) (2)	01.04.94: tendering for Sequence 4 construction opens Local communities continue making their contributions to Sequence 4 sites
	(3)	Local brickmakers are commissioned to make timba bricks to the appropriate specifications on Sequence 4 construction sites and start their work
May	(1)	Local communities continue making their contributions to Sequence 4 sites
	(2) (3)	Timba brick makers continue producing Sequence 4 bricks 31.05.95: tendering for Sequence 4 construction closes and tenders accepted or rejected

(1)	Local communities conclude making their contributions to Sequence 4 sites
(2)	Timba brick making for Sequence 4 construction is concluded
	Purchase of bricks for Sequence 4 construction One month period in which Sequence 4 contractors can decline
(• /	to proceed with their successful tenders
(1.)	Clerks of works authorize final payments of the withheld 5% to contractors for Sequence 3 construction
(2)	Sequence 4 construction starts
(3)	Clerks of works start inspecting Sequence 4 constructions and, if found acceptable by clerks of works, PIU commences progressive payments to contractors
(1)	Continue Sequence 4 inspections and payments to contractors
(1)	Continue Sequence 4 inspections and payments to contractors
(1)	Continue Sequence 4 inspections and payments to contractors
(1)	Continue Sequence 4 inspections and payments to contractors
(1)	Continue Sequence 4 inspections and payments to contractors
(1)	Conclude Sequence 4 inspections and payments (apart from the withheld 5%) to contractors
(2)	31.01.96: employment of stores clerks, general clerk and drivers terminated
(1)	31.03.9: report on 1994-95 activities submitted to MOFC
(1)	Clerks of works authorize final payments of the withheld 5% to contractors for Sequence 4 construction
(2)	31.07.96: employment of clerks of works and senior accounts assistant terminated
(3)	Disposal of trucks and pickups finalized
(3)	31.07.96: final report presented to MOEC
	(2) (3) (4) (1) (2) (3) (1) (1) (1) (1) (1) (1) (1) (2) (1) (1) (2) (3)